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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,956	10/31/2003	William D. Holland	10011570-1	5976
22879 7590 09/12/2008 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD			EXAMINER	
			RODRIGUEZ, ARMANDO	
	INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400		ART UNIT	PAPER NUMBER
			2828	
			NOTIFICATION DATE	DELIVERY MODE
			09/12/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/700,956	HOLLAND, WILLIAM D.		
Office Action Summary	Examiner	Art Unit		
	ARMANDO RODRIGUEZ	2828		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY THE MAIL	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire I will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 20 € 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-12,14-38 and 40-47 is/are pending 4a) Of the above claim(s) is/are withdra 5) Claim(s) 1-8 and 31-37 is/are allowed. 6) Claim(s) 9-12, 14, 15, 17-30, 38, 40-43, 45-43, 7) Claim(s) 16 and 44 is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration. 7 is/are rejected.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposition and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

Application/Control Number: 10/700,956 Page 2

Art Unit: 2828

DETAILED ACTION

Response to Arguments

Applicant arguments regarding claims 11 and 41 not being listed within the body of rejection is acknowledged. Claims 11 and 41 are now listed and rejected, since the subject matter within claims 11 and 41 were clearly disclosed by the previously cited prior arts.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9, 10, 12, 18, 19, 22-25, 29, 30, 38, 40- 43, 45, 47 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakatsuka et al (US 2002/0024586).

Regarding claims 9, 18, 22.

Figures 1 illustrates a rotating scanning device (5), a light source (1), a photoconductor (8), a photodetector (10), a control system (15) where the control system receives an indication of the sampled light from the photodetector for maintaining the light source at a constant drive level, as illustrated in the flow chart of figure 2 and described in paragraphs [0068]-[0072]. The flow chart clearly illustrates comparing the monitored light power with a predetermined value [applicant's constant] and generating a laser driving signal (S104).

Regarding claim 10.

As illustrated in figure 2 the light source (1) emits in a single direction.

Regarding claims 12, 24.

Page 3

As illustrated in the flow chart of figure 2 the processing circuitry performs a comparison of the sampled light with a predetermined value.

Regarding claims 19, 38.

Paragraph [0066] discloses the light source (1) as a semiconductor laser.

Regarding claims 23, 45.

As illustrated in flow chart of figure 2 the laser driving signal generation performed based on the sampled light.

Regarding claim 25,

As illustrated in flow chart of figure 2 the output is maintained at a constant level.

Regarding claim 29.

Figures 1 illustrates a rotating scanning device (5), a light source (1), a photoconductor (8), a photodetector (10), a control system (15) where the control system receives an indication of the sampled light from the photodetector for maintaining the light source at a constant power level [applicant's intensity], as illustrated in the flow chart of figure 2 and described in paragraphs [0068]-[0072]. Paragraph [0064] discloses the use of toner particles to form images [applicant's image engine].

Regarding claim 30.

As illustrated in flow chart of figure 2 the laser driving signal generation performed based on the sampled light.

Regarding claim 40.

Paragraph [0066] discloses the light source (1) as a semiconductor laser and figure 1 illustrates control system (15) controlling the laser.

Regarding claim 41.

Figure 1 clearly illustrates the light source (1) generating all of the light.

Regarding claims 42, 43, 45, 47.

As illustrated in flow chart of figure 2 the laser driving signal generation performed based on the sampled light. As illustrated in flow chart of figure 2 the output is maintained at a constant power level [applicant's intensity].

Claims 14, 15, 17, 18, 20, 21, 22, 27, 28, 46 are rejected under 35 U.S.C. 102(b) as being anticipated by Hori (US 5,986,687).

Regarding claims 14, 18, 22, 27, 46.

Figure 2 illustrates a laser (LD), which generates a single beam, a scanning device (4), a photodiode (PD), a photodetector (9), a photoconductor (7), a control system (CPU), which receives the sampled light and maintains a constant drive level, as disclosed in column 4 lines 58-67. Column 5 lines 16-34 discloses the APC adjusting the laser power in accordance with a reference voltage [applicant's constant]. Figure 3 illustrates a timing chart, where the light is sampled once per line of information (draw area).

Regarding claim 15.

Figure 2 illustrates the light beam in a single direction.

Regarding claims 17, 20.

Column 5 lines 15-18 discloses the PD first detecting the light beam.

Regarding claims 21, 28.

Figure 2 illustrates the photodiode (PD) outside of the photoconductor.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11, 26 rejected under 35 U.S.C. 103(a) as being unpatentable over Nakatsuka et al (US 2002/0024586), as applied to claims 9 and 22 above, and in view of Luque (US 6,198,497).

Nakatsuka et al discloses in paragraph [0066] the light source (1) as a semiconductor laser.

Nakatsuka et al is silent as to the semiconductor laser being a vertical cavity surface emitting laser diode (VCSEL).

However, the use of VCSEL in laser scanning devices is notoriously well known in the art, as described by Luque in column 2 lines 33-50 and column 4 lines 14-30.

Allowable Subject Matter

Claims 1-8, 31-37 are allowed.

The following is an examiner's statement of reasons for allowance:

After careful review of applicant's arguments and conducting an updated search none of the cited prior arts alone or in combination discloses the claimed invention with

Art Unit: 2828

the cited limitations of independent claims 1 and 31, to include among the limitations the start-of-scan detector.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 16, 44 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/700,956 Page 7

Art Unit: 2828

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ARMANDO RODRIGUEZ/ Primary Examiner Art Unit 2828